



About Company

PressureJet Systems Pvt. Ltd. was established in 1996 in Ahmedabad, India. PressureJet (an ISO 9001:2008 certified company) is a leading manufacturer of High Pressure, Positive Displacement, Reciprocating Triplex Plunger Pumps, Systems and relevant accessories. These pumps are widely used for various applications like Granite & Marble Texturing, Wet Sand Blasting, Sewer Jetting, Hydro Blasting, Water Jet Cleaning, Hydro test, Descaling, Fire Fighting, Transfer & many more.

Today, PressureJet has a workforce of more than 85 dedicated people. We have 11000 Sq. ft. area in Asia's premier industrial estate in Ahmedabad. Out of which, 5000 Sq. ft. area has been allocated for manufacturing activities.



Our Quality

All components are quality checked in the controlled environment of the QC department. We have the most modern measurement equipment such as 3D CMM (Coordinate Measuring Machine), Surface Roughness Tester, Hardness Tester etc. All components are tracked by barcode system with oracle ERP.









3D modelling is an important aid in designing the technical aspects of engineering product.

Simulation can really help in making the correct design decisions during the development stage.

At PressureJet, we are using all latest Design Softwares.





Machine Shop







Our Ultra-modern machine shop enables us to manufacture an extremely wide range of components. We can be very flexible in our production planning, while maintaining a high standard of quality with fully automatic machining station. Computer controlled machining stations ensure constant dimensional accuracy.

Assembly & Testing







In this area, all components for the various pump units come together. Pumps and engine or motors are assembled on the skid frame, Accessories such as booster pump, Strainers, PRV, Safety Valve etc. are assembled.

PressureJet products are subject to stringent quality control. All pumps are tested at maximum load prior to dispatch for decided time period. All measurement taken during the testing are electronically stored in computer through fully Automatic Test Bench and then it can be printed. Test report is always provided with the pump.

Store / Service



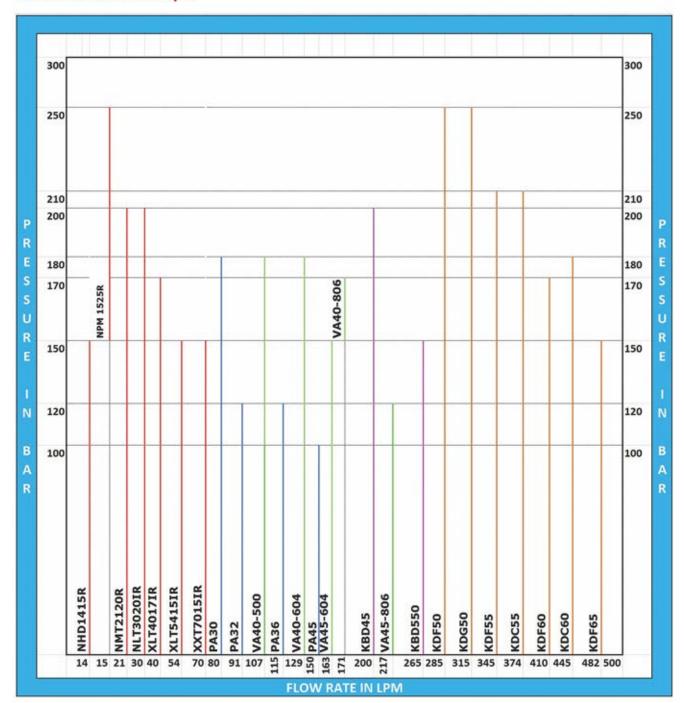




A product is only as good as the service backing it. We have a dedicated team of technicians available for 24 X 7. We keep majority of spares Ex-stock to reduce down time.



Model Selection Graph









Selection Chart

			Pump Select	ion Chart			
Pump Series	Model	Pump Speed (SPM)	Input RPM Reqd.	Flow Rate in LPM	(Min.	Pressure in Bar Engine HP Req	
	NHD1415R			14	150 (8)	100 (5.5)	80 (5)
	NPM1525R			15	250 (15)	180 (10)	140 (8)
	NMT2120R			21	200 (16)	180 (15)	130 (11)
HW	NLT3020IR	1500		30	200 (23)	155 (18)	125 (15)
	XLT4017IR			40	170 (26)	140 (23)	95 (15)
1	XLT5415IR			54	150 (28)	130 (27)	100 (21)
	XXT7015IR		950	70	150 (32)	130 (28)	100 (27)
	PA30	75-200		80	175 (45)	155 (40)	115 (30)
PA	PA32	950	950	91	150 (44)	125 (37)	100 (30)
PA	PA36			115	120 (45)	90 (29)	
	PA45	800	800	150	100 (50)	75 (36)	**
		500		107	180 (60)	150 (50)	120 (40)
	VA40	604		129	180 (72)	140 (56)	100 (40)
VA		806		171	170 (90)	140 (75)	100 (30)
	VA45	604	1500	163	150 (76)	130 (65)	100 (50)
	1,113	806	-	217	130 (90)	100 (68)	
	KBD45	600		200	200 (124)	150 (93)	100 (62)
KB	KBD50	600		265	155 (127)	130 (107)	100 (82)
	KDC55		4500	374	210 (244)	185 (216)	155 (180
KD	KDC60	500	1500	445	180 (248)	155 (213)	130 (180

Note: (1) Flow rates indicated are at 100% volumetric efficiency. Actual Flow rates will be > 90% approx.

Unloader Valve Selection Chart											
Model	VB 130	Unloader RV	VB 80/280	VB 200/150	VB 450/300						
Photo	1										
Max. Flow Rate (LPM)	25	40	80	200	450						
Max. Pressure (Bar)	180	280	310	170	330						
Weight	0.39	0.74	1.27	2.02	5.95						
Volume	77 X 26 X 112	83 x 50 X 173	96 X 47 X 220	129 X 46 X 225	170 X 62 X 318						

⁽²⁾ All models are suitable for 50 Hz and 60 Hz power specification.



HW Series

Salient Features

- · Field proven design.
- · Forged brass fluid and construction with high strength.
- · Rigorously subjected to full load testing.
- · Manufactured on state of the art machinery.
- . Light in weight & heavy duty construction with intermediate duty model.
- · Splash lubrication.
- · Available Direct Couple 1450 RPM Drives.
- · Easy field maintenance.

Note: (1) Flow rates indicated are at 100% volumetric efficiency. Actual Flow rates will be > 90% approx.
(2) All models are suitable for 50 Hz and 60 Hz power specification.

(3) Gear box is required to operate above pumps at 3000 RPM.



Specifications - HW Series

Sr. No.	Pump Model	Plunger Dia. (mm)	Stroke Length (mm)	Max. Thrust on Plunger (Kgs)	Inlet Connection Size (BSPF)	Outlet Connection Size (BSPF)	Required Suction Pressure	Oil Grade	Oil Capacity (Ltr)	Bare Pump Weight (Kg)
1	NHD1415R	18	13	356					0.4	6.6
2	NPM1525R	10	145	636	4 (21)	3/8"			0.7	0.5
3	NMT2120R	22	14.5	760	1/2"	3/8"			0.7	9.5
4	NMT3020IR	22	20	760			Flooded	SAE 10W - 40		14.8
5	XLT4017IR		17	862	3/4"	1/2"	hine expansions			17.2
6	XLT5415IR				3/4	2/.2				2000,2009
7	XXT7015IR	28	20	924	1"	3/4"			1.2	18.4

		Model Sele	ection Cha	rt - HW Se	eries	
Model	Pump Speed (SPM)	Input RPM Reqd.	Flow Rate in LPM	Pressure in	Bar (Min. Eng	zine HP Required
NHD1415R			14	150 (8)	100 (5.5)	80 (5)
NPM1525R		1500	15	250 (15)	180 (10)	140 (8)
NMT2120R			21	200 (16)	180 (15)	130 (11)
NLT3020IR	1500		30	200 (23)	155 (18)	125 (15)
XLT4017IR			40	170 (26)	140 (23)	95 (15)
XLT5415IR			54	150 (28)	130 (27)	100 (21)
XXT7015IR			70	150 (32)	130 (28)	100 (27)





Material of Construction of Major Internal Parts

1 Crank Case (Main Body)

Crank Case in High Strength Aluminum Pressure Die Casting. With fit led anti friction bush.

2 Crankshaft

Crankshaft is made of Forged Alloy Steel, with Hardened & Ground.

3 Bearing

Oversized for maximum life and load disbursement. Self-alignment roller bearing enables it to handle 26% more load than other pumps.

4 Connecting Rod

Forged Aluminium connecting rods with antifriction bearings. Heavy pin area construction, for added load strength.

5 Piston (Plunger Rod)

Stainless Steel Construction for hard surface coating and super finish.

6 Pump Head (Manifold Housing)

Pump head is made of High Strength Forged Brass.

7 Plunger

High Finish Solid Ceramic Plunger and Surface roughness is extremely good i.e. <0.25 Ra for less wear of Plunger seal.

8 Plunger Seal

Durable Fiber Impregnated Buna-n Seal packing (Make Parker, Germany) for high compressive & tensile strength ensures effective sealing.

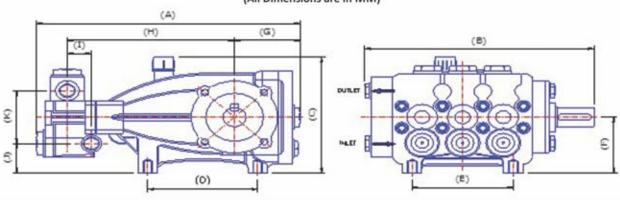
9 Complete Valve

Valves made of Stainless Steel anti corrosion hard surface coated for long life. High volumetric efficiency, valves operate at more than 95% efficiency.



HW Series Bare Pump Dimensions

(All Dimensions are in MM)



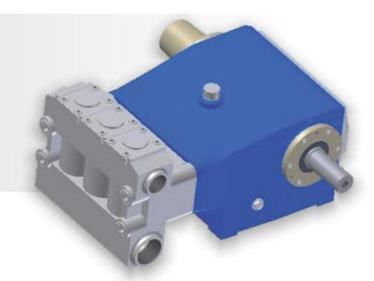
Model	Α	В	С	D	E	F	G	Н	1	J	К
NHD1415R	250.5	213	135	80	90	60.5	60.5	140	5	30.5	56
NPM1525R NMT2120R	273.5	238	144.5	90	105	70	68	173.5	25	37	66
NMT3020IR	333	248	168.5	105	145	82	81.5	204.5	12	42	77
XLT4017IR XLT5415IR	341	263	168.2	145	105	82	*	217.5	28	35	87
XXT7015IR	344	263	168.5	145	105	82		198.5	10	35	91



PA Series

Salient Features

- · Field proven design. Easy field maintenance.
- · Fluid end construction SG Iron Casting.
- · Rigorously Subjected to full load testing.
- · Manufactured on state of the art machinery.
- · Light in weight (Heavy duty construction, light in weight)
- · Splash lubrication.
- · Available direct couple or pulley belts drive.





Specification

· Plunger Stroke: 40 mm

Max. plunger speed: 1.26 m/sec. @ 950 spm

Plunger force: 12.5 kN (1274 kgf)
 Inlet Pressure min./max.: 1 to 3 bar

Oil Type: 15W 40

Oil capacity: 4 ltr.

Max. Liquid Temp.: 70 °C (160°F)
 Discharge Connection: 1" BSPF

Suction Connection: 1 ½" BSPF

Transmission Type: Belt or External Gear

Dimensions: 475x464x223 (lxbxh) in mm

		Model Sel	ection Cha	rt - PA Se	ries	
Model	Pump Speed (SPM)	Input RPM Reqd.	Flow Rate in LPM	Pressure in	Bar (Min. En	gine HP Required)
PA30			80	175 (45)	155 (40)	115 (30)
PA32	950	950	91	150 (44)	125 (37)	100 (30)
PA36			115	120 (45)	90 (29)	
PA45	800	800	150	100 (50)	75 (36)	

Note:

- (1) Flow rates indicated are at 100% volumetric efficiency. Actual Flow rates will be > 90% approx.
- (2) All models are suitable for 50 Hz and 60 Hz power specification.





Material of Construction of Major Internal Parts

Power End

1 Crank Case (Main Body)

<u>Grey Iron</u>: Main body in grey iron casting FG-260. With Honed surface finish bore.

2 Crankshaft

<u>Spheroidal Graphite Iron</u>: Crankshaft is made of nitrated, hardened and tempered Spheroidal Graphite Iron casting.

3 Connecting Rod

Alloy Steel: Forged steel connecting rods with antifriction bearings. Heavy pin area construction, for added load strength.

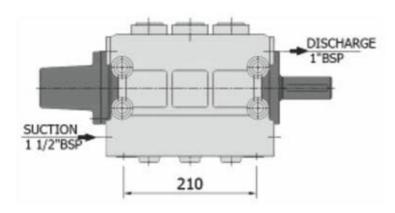
4 Piston / Cross Head

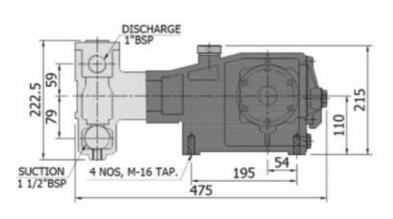
Alloy Steel: Alloy steel construction for hard surface coating and super finish.

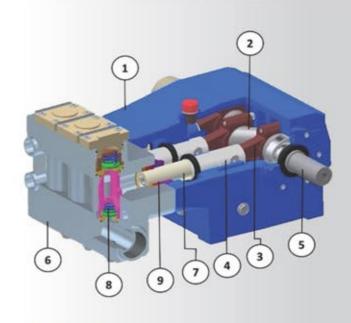
5 Bearing

Oversized for maximum life and load disbursement. Self-alignment roller bearing enables it to handle 26% more load than other pumps.

PA Series Bare Pump Dimension







Fluid End

6 Pump Head

SG Iron: Pump Head is Made of SG Iron Casting.

7 Plunger Ceramic Coated

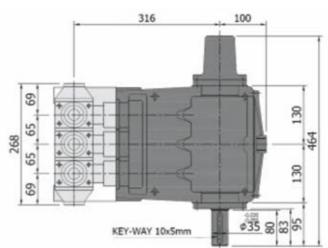
Primarily composed of ceramic coated. Surface roughness is extremely good i.e. <0.2 Ra.

8 Complete Valve Internal (Valve Assembly)

<u>Stainless Steel</u>: Valves made stainless steel for hardened & anti corrosion hard surface coated for long life. High volumetric efficiency valves operate at 95% efficiency plus.

9 Plunger Sea

<u>Chevron Seal</u>: "V" style strong and tightens under load packing for high compressive & tensile strength ensure effective sealing.



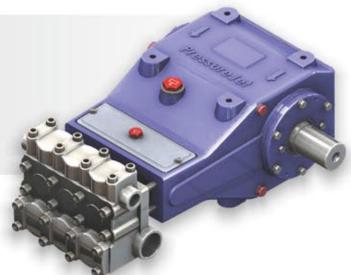
All Dimensions are in mm and Bare Pump Weight - 83 Kgs.



VA Series

Salient Features

- · Casting stainless steel pump head construction with high strength.
- · Light in weight & heavy duty construction.
- · Splash lubrication.
- · Easy field maintenance.
- · Both side mounting available.
- Pumps design suitable for inbuilt gear & belt drive.





Bare Pump with Gear Box

Specification

· Plunger Stroke: 57 mm

Max. plunger speed: 1.14 m/sec. @ 600 spm

Plunger force: 23.5 kN (2400 kgf)
 Required Inlet Pressure: Flooded

Oil Type: SAE – 80 W 90

Oil capacity: 8 ltrs.

Max. Liquid Temp.: 70 °C (158 °F)
 Discharge Connection: 1" BSPF

Suction Connection: 2" BSPF
 Transmission Type: External Gear

Dimensions: 716x501x264 (lxbxh) in mm

	Model Selection Chart - VA Series											
Model	Pump Speed (SPM)	Bar (Min. En	gine HP Required)									
	500		129	180 (72)	140 (56)	100 (40)						
VA40	604		138	200 (80)	140 (60)	100 (43)						
	806	1500	155	180 (87)	130 (62)	100 (48)						
302-723	604		163	150 (76)	130 (65)	100 (50)						
VA45	806		217	170 (90)	140 (75)	100 (30)						

Note: (1) Flow rates indicated are at 100% volumetric efficiency. Actual Flow rates will be > 90% approx. (2) All models are suitable for 50 Hz and 60 Hz power specification.





Material of Construction of Major Internal Parts

Power End

1 Crank Case (Main Body)

<u>Grey Iron</u>: Main body in grey iron casting FG-260 with Honed surface finish bore.

2 External Helical Gear Box

Alloy Steel: Helical gear is nitride hardened and precision ground for extremely long life and durability.

3 Bearing

Oversized for maximum life and load disbursement. Selfalignment roller bearing enables it to handle 26% more load than other pumps.

4 Crankshaft

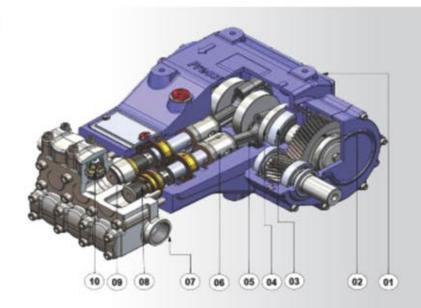
Alloy steel: Crankshaft is made of nitrated, hardened and precision ground for extremely long life and durability

5 Connecting Rod

<u>Alloy Steel</u>: Forged steel connecting rods with antifriction bearings. Heavy pin area construction, for added load strength.

6 Piston / Cross Head

<u>Grey Iron & Stainless Steel</u>: Alloy steel casting piston & stainless steel piston rod are hardened & super finish surface.



Fluid End

7 Pump Head

SG Iron: Pump Head is Made of SG Iron Casting.

8 Plunger Ceramic Coated

Primarily composed of ceramic coated on SS. Surface roughness is extremely good i.e. <0.2 Ra.

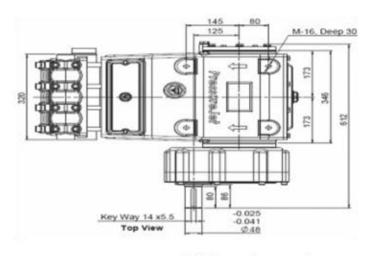
9 Plunger Seal

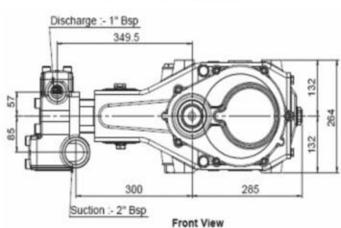
PTFE Aramide / GFO Aramide rope: Aramide fibre yarn packing with PTFE fibre face or carbonaceous aramide yarn packing with GFO fibre face for high compressive & tensile strength ensure effective sealing.

10 Complete Valve Internal (Valve Assembly)

Stainless Steel: Valves made of stainless steel for hardened & anti corrosion hard surface coated for long life. High volumetric efficiency valves operate at 95% plus efficiency.

VA Series Bare Pump Dimension





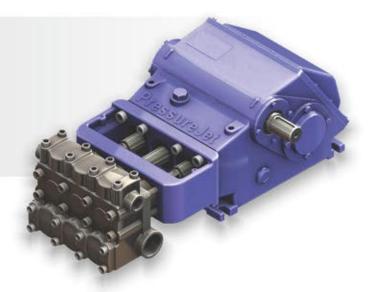
All Dimensions are in mm and Bare Pump Weight - 195 Kgs.



KB Series

Salient Features

- · KB Series Designed in built gear.
- · Casting stainless steel pump head construction with high strength.
- Light in weight & heavy duty construction.
- · Splash lubrication.
- · Easy field maintenance.





Specification

Plunger Stroke: 75 mm

Max. plunger speed: 1.32 m/sec. @ 600 spm

Plunger force: 31.28 kN (3190 kgf)

Inlet Pressure min./max.: 2-3 bar

Oil Type: 80W 90

Oil capacity: 8 ltrs.

Max. Liquid Temp.: 70 °C (160°F)

Discharge Connection: Ø G Hole (as per drawing)

Suction Connection: 2" BSPF

• Transmission Type: Direct Couple (In-built gears)

• Dimensions: 825x442x303 (lxbxh) in mm

		Model Sel	ection Cha	rt - KB Se	ries	
Model KBD45	Pump Speed (SPM)	Input RPM Reqd.	Flow Rate in LPM	Pressure in Bar (Min. Engine HP Rec		
				200	200 (124)	150 (93)
KBD50	600	1500	265	155 (127)	130 (107)	100 (82)

Note: (1) Flow rates indicated are at 100% volumetric efficiency. Actual Flow rates will be > 90% approx. (2) All models are suitable for 50 Hz and 60 Hz power specification.





Material of Construction of Major Internal Parts

Power End

1 Crank Case (Main Body)

<u>Spheroidal Graphite Iron</u>: Main body in spheroidal graphite Iron casting with honed surface finish bore.

2 Crankshaft

Alloy steel: Crankshaft is made of nitrated, hardened and precision ground for extremely long life and durability.

3 Connecting Rod

Alloy Steel: Forged steel connecting rods with antifriction bearings. Heavy pin area construction, for added load strength.

4 Piston / Cross Head

<u>Grey Iron & Stainless Steel</u>: Alloy steel casting piston & stainless steel piston rod are hardened & super finish surface.

5 Pinion Shaft

Alloy steel: Pinion shaft is nitride hardened and precision ground for extremely long life and durability.

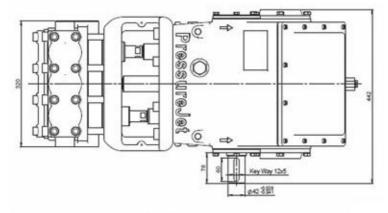
6 Helical Gear

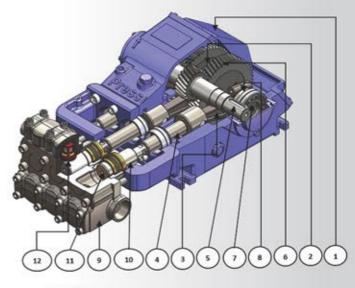
Alloy steel: Helical gear is nitride hardened and precision ground for extremely long life and durability.

7 Bearing

Oversized for maximum life and load disbursement. Selfalignment roller bearing enables it to handle 26% more load than other pumps.

KB Series Bare Pump Dimension





Fluid End

8 White Metal Bearing

Antifriction bearings for long life of crankshaft

9 Pump Head

SG Iron: Pump Head is Made of SG Iron Casting.

10 Plunger Ceramic coated

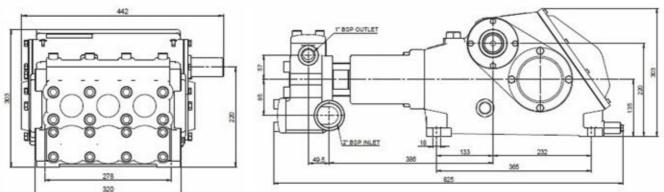
Primarily composed of ceramic coated on SS. Surface roughness is extremely good i.e. <0.2 Ra.

11 Plunger Seal

PTFE Aramide / GFO Aramide rope: Aramide fibre yarn packing with PTFE fibre face or carbonaceous aramide yarn packing with GFO fibre face for high compressive & tensile strength ensure effective sealing.

12 Complete Valve Internal (Valve Assembly)

<u>Stainless Steel</u>: Valves made of stainless steel for hardened & anti corrosion hard surface coated for long life. High volumetric efficiency valves operate at 95% plus efficiency.



All Dimensions are in mm and Bare Pump Weight - 210 Kg



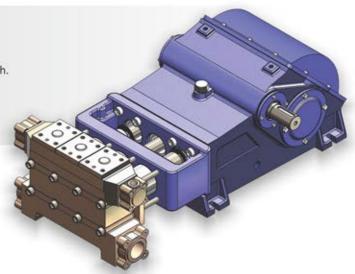
KD Series

Salient Features

- · KD Series Designed in built gear.
- · Casting stainless steel pump head construction with high strength.
- Light in weight & heavy duty construction.
- · Splash lubrication.
- · Easy field maintenance.

Note: (1) Flow rates indicated are at 100% volumetric efficiency. Actual Flow rates will be > 90% approx.

(2) All models are suitable for 50 Hz and 60 Hz power specification.





Specification

Plunger Stroke: 105 mm

Max. plunger speed: 1.52 m/sec. @ 500 spm

Plunger force: 40 kN (4080 kgf)
Inlet Pressure min./max.: 2-3 bar

Oil Type: SAE – 80 W 90

Oil capacity: 8 ltr.

Max. Liquid Temp.: 70 °C (160 °F)

• Discharge Connection:

○ G Hole (as per drawing)

Suction Connection: 3" BSPF

Dimensions: 1044x531x365 (lxbxh) in mm

		Model Sel	ection Cha	rt - KD Se	ries	
Model	Pump Speed (SPM)	Input RPM Reqd.	Flow Rate in LPM	Pressure in	Bar (Min. Engine HP Required	
KDC55	1500	374	210 (244)	185 (216)	155 (180)	
KDC60	500	1300	445	180 (248)	155 (213)	130 (180)





Material of Construction of Major Internal Parts

Power End

1 Crank Case (Main Body)

<u>Spheroidal Graphite Iron</u>: Main body in spheroidal graphite Iron casting with honned surface finish bore.

2 Crankshaft

Alloy steel: Crankshaft is made of nitrated, hardened and precision ground for extremely long life and durability.

3 Connecting Rod

<u>Alloy Steel</u>: Forged steel connecting rods with antifriction bearings. Heavy pin area construction, for added load strength.

4 Piston / Cross Head

<u>Grey Iron & Stainless Steel</u>: Alloy steel casting piston & stainless steel piston rod are hardened & super finish surface.

5 Pinion Shaft

Alloy steel: Pinion shaft is nitride hardened and precision ground for extremely long life and durability.

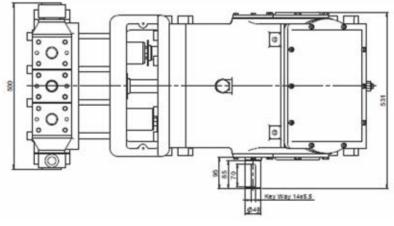
6 Helical Gear

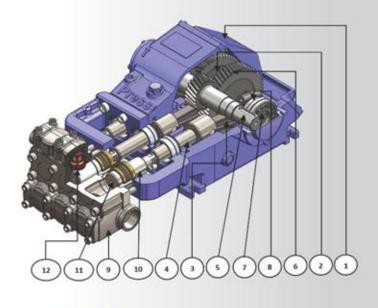
Alloy steel: Helical gear is nitride hardened and precision ground for extremely long life and durability.

7 Bearing

Oversized for maximum life and load disbursement. Selfalignment roller bearing enables it to handle 26% more load than other pumps.

KD Series Bare Pump Dimension





Fluid End

8 White Metal Bearing

Antifriction bearings for long life of crankshaft

9 Pump Head

SG Iron: Pump Head is Made of SG Iron Casting.

10 Plunger Ceramic coated

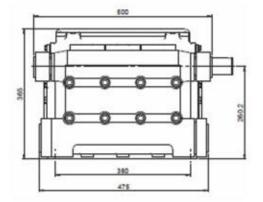
Primarily composed of ceramic coated on SS. Surface roughness is extremely good i.e. <0.2 Ra.

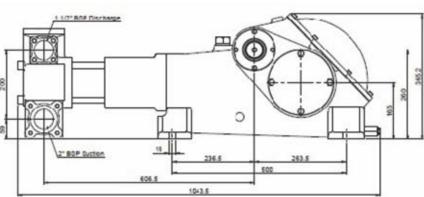
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PTFE Aramide / GFO Aramide rope: Aramide fibre yarn packing with PTFE fibre face or carbonaceous aramide yarn packing with GFO fibre face for high compressive & tensile strength ensure effective sealing.

12 Complete Valve Internal (Valve Assembly)

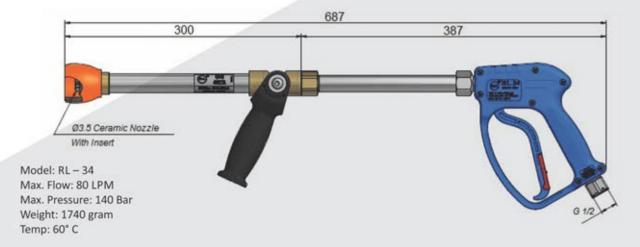
<u>Stainless Steel</u>: Valves made of stainless steel for hardened & anti corrosion hard surface coated for long life. High volumetric efficiency valves operate at 95% plus efficiency.

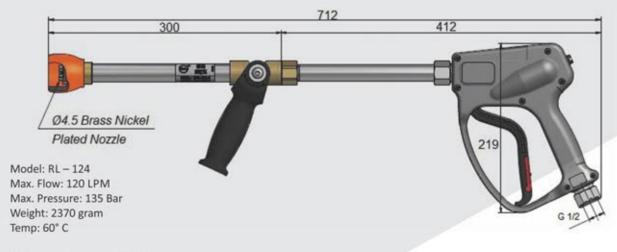




Foam Gun







(All Dimensions are in MM)

Important Note: Owing to continuous R & D, any technical details & specifications mentioned in this catalogue are liable to change anytime. All rights reserved to PressurJet. For latest Information & more details, please visit our website. Our Website is fully informative, exhaustive and communicative. It is designed to provide maximum information in most precise form to help our valued customers to take a quick and right decision.

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